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Derwent Title: Control and monitoring of oxygen concentration for production of hypoxic gaseous mixtures by separating compressed air into parallel oxygen depleted and enriched flows and using constant and variable pneumatic resistances

Original Title:  WO0035526A1: METHOD FOR CONTROLLING AND MONITORING OXYGEN CONCENTRATION AND DEVICE FOR REALISING THE SAME

Assignee: BIO-NOVA RES TECH ASSOC Soviet institute

Inventor: BASOVICH O S; BASOVICH S N; SHEDIN O I;

Accession/ 2000-442290 / 200107

Update:

IPC Code: A61M 16/00 ; A61M 16/12 ; A61H 31/00 ;

Derwent Classes: E36; J04; P33; P34;

Manual Codes: E11-Q03J(Analysis, or detection by polarography, potentiometry, electrolysis - processes, apparatus) , E31-D01 (O2 production, storage) , E31-D02(O2 use, detection, removal) , J04-C(Using steam or vapour, in direct contact with coolant and separated from coolant by walls)

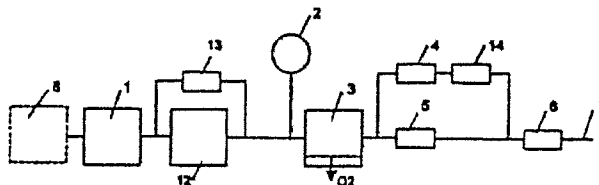
Derwent Abstract: (WO0035526A) **Novelty** - Control and monitoring of oxygen concentration for production of hypoxic gaseous mixtures by separating compressed air into parallel oxygen depleted and enriched flows and using constant and variable pneumatic resistances.

Detailed Description - The method is carried out by supplying compressed air from source (1) to a membrane gas separation module (3), where it is separated into two parallel streams of oxygen depleted and enriched flows. The air pressure is set to correspond to the necessary oxygen concentration. One of the parallel stream lines is provided with a variable pneumatic resistance (4) and the other with a constant pneumatic resistance (5). The pneumatic resistance is thus regulated to obtain a predetermined value at the point where the two streams are re-united. The oxygen concentration is controlled according to fixed values of the compressed air and the flow rate of the re-united flow of the hypoxic gas mixture.

Use - In medicine for control and monitoring of gaseous mixtures with reduced oxygen content, for treatment of patients and sports training.

Advantage - The reliability is increased whilst control is simplified.


Images:



Description of Drawing(s) - The drawing shows a block diagram of the device Compressed air source 1, Gas separation module 3, Variable pneumatic resistance 4, Constant pneumatic resistance 5 [Dwg.6/6](#)

Family:

Derwent


PDF Patent Pub. Date Update Pages Language IPC Code
 **WO0035526A1** * 2000-06-22 200038 16 RU_RU A61M 16/12
 (N) AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB
 GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
 MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
 Des. States: UA UG US UZ VN YU ZW
 (R) AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
 OA PT SD SE SL SZ TZ UG ZW
 Local appls.: WO1999RU0000416 Filed:1999-11-04 (99WO-RU00416)

☒ **RU2158610C2** = 2000-11-10 200107 English A61M 16/00
 Local appls.: RU1998000122680 Filed:1998-12-15 (98RU-0122680)



☒ **AU0013010A** = 2000-07-03 200046 English A61M 16/12
 Local appls.: Based on WO00035526 (WO 200035526)
 00192000U-00130 Filed:1999-11-04 (2000AU-0013010)

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 Legal Status:

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 Priority Number:

Application Number	Filed	Original Title
<u>RU1998000122680</u>	1998-12-15	METHOD AND APPARATUS FOR REGULATING AND CONTROLLING OF OXYGEN CONCENTRATION

 Unlinked
 Registry Numbers:
 Related
 Accessions:

1779P 1779U

Accession Number	Type	Derwent Update	Derwent Title
C2000-134458	C		
N2000-330056	N		
2 items found			

 Title Terms:

CONTROL MONITOR OXYGEN CONCENTRATE PRODUCE HYPOXIA GAS
 MIXTURE SEPARATE COMPRESS AIR PARALLEL OXYGEN DEPLETED
 ENRICH FLOW CONSTANT VARIABLE PNEUMATIC RESISTANCE

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